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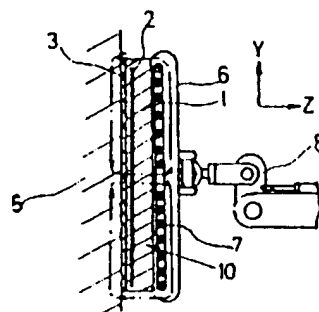
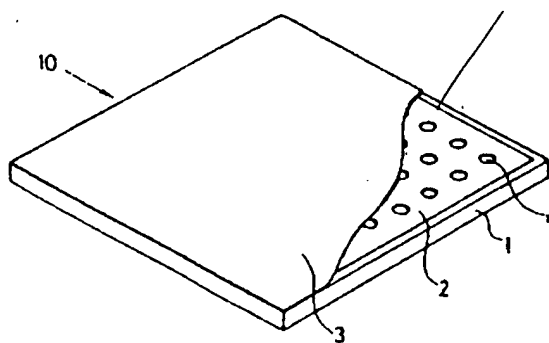
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TITLE : AUTOMATIC BONDING PROCESS AND
ADHESIVE COMPOSITE MATERIAL



ABSTRACT : PURPOSE: To provide a safe and efficient bonding process for bonding objects such as tiles where a magnetic flux-generating coil is equipped on a moving device movable in the multiaxial direction and a specified electric power is passed to generate heat caused by vortex current loss due to magnetic field in electrically conductive heat-generating material layer to heat the adhesive resin layer.

CONSTITUTION: Either or both sides of a bonding object member 1 such as a tile is provided with an electrically conductive heat-generating material layer 2 such as metallic foil the whole surface of which is further provided with a hot-melt adhesive resin layer 3 to form an adhesive composite material 10. This composite material 10 is put on a substrate 5 such as wall surface, and on said material 10, an induction heating device 6 in which a magnetic flux-generating coil 7 fitted on a moving device movable in the multiaxial direction such as a manipulator is stored, is pressed. Thence, a specified electric power is passed through said coil 7 to generate heat caused by vortex current loss due to magnetic field in said layer 2 to heat said layer 3, thus accomplishing the objective automatic bonding between the object 1 and the substrate 5.

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